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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/507,351 Confirmation No. 5654
Applicant : Schaefer et al.
Filed : September 9, 2004
TC/A.U. : 1645
Examiner : Not Assigned
For : METHOD FOR THE EVALUATION OF VELVET ANTLER
Docket No. : 23-02
Customer No. : 23713

Commissioner for Patents
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February 10, 2005
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Cathy Nelson
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INFORMATION DISCLOSURE STATEMENT

Sir:

The Examiner is respectfully requested to consider the references, copies enclosed, which may qualify as prior art. For the Examiner's convenience, the references are listed on the attached Patent and Trademark Office form PTO-1449. Pursuant to the Waiver published in the Official Gazette on August 5, 2003, because this application was filed after June 30, 2003, copies of cited U. S. patent documents are not included, but will be provided upon request.

This information is cited in a spirit of forthrightness and cooperation to enable the applicants to obtain that measure of protection for the invention to which there is entitlement. However, no representation is made that the listed art actually qualifies as prior art under the patent statute and the mere use of PTO-1449 is not an admission that all listed references are prior art. No representation is made that applicants know of the best art.

It is believed that this submission does not require the payment of a fee. If this is not correct, please charge any required fee to deposit account no. 07-1969.

Respectfully submitted,

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February 10, 2005

Form PTO - 1449

U. S. DEPT. OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE STATEMENT
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(Use several sheets if necessary)

F. DKT. NO.

23-02

SERIAL NO.

10/507,351

APPLICANT

Schaefer et al.

FILING DATE

09/09/04

GROUP

1645

U. S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
	3,245,402	04/12/66	Barnes, et al.	600	474	05/21/63
	3,877,818	04/15/75	Button, et al.	356	416	01/28/74
	3,948,249	04/06/76	Ambrosini, et al.	600	551	03/31/78
	3,991,744	11/16/76	Goodfield	128	2	04/22/75
	4,366,381	12/28/82	Fischer et al.	250	316.1	12/15/80
	4,788,427	11/29/88	LeRoy	250	330	09/04/86
	4,914,672	04/03/90	Hebrank	374	124	07/14/88
	4,995,398	02/26/91	Turnidge	128	668	04/30/90
	4,998,826	03/12/91	Wood et al.	374	129	11/30/88
	5,408,041	04/18/95	Mundy, et al.	530	413	01/13/94
	5,458,418	10/17/95	Jones, et al.	374	45	07/02/93
	5,474,085	12/12/95	Hurnik, et al.	600	587	02/24/94
	5,595,444	01/21/97	Tong, et al.	374	45	10/16/95
	5,691,397	11/25/97	Glimcher, et al.	523	115	10/10/96
	5,740,809	04/21/98	Baratta, et al.	600	474	10/26/94
	5,944,598	08/31/99	Tong et al.	452	158	08/19/97
	6,123,451	09/26/00	Schaefer, et al.	374	45	03/16/98

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	CA 2,132,219	09/30/93	Canada	C12N	15/18	Yes	
	CA 2,201,768	10/11/97	Canada	A61K	35/32	Yes	

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Bowers, S. et al. (2002) Antlerogenesis in red deer stags: relationships between velvet antler growth rates and temperature measurements. <i>J. Anim. Sci.</i> 80(2):31.
	Cho, C.-H., Woo, Y., Kim, H., Chung, Y., Chang, S. and Chung, H. (2001) Rapid qualitative and quantitative evaluation of deer antler (<i>Cervis elaphus</i>) using near-infrared reflectance spectroscopy. <i>Microchemical Journal</i> 68(2-3):189-195.
	Cena, K. and Clark, J.A. (1973) Thermographic measurements of the surface temperatures of animals. <i>J. Mammol.</i> 54:1003-1007.
	Cook, N.J. and Schaefer, A.L. (2002) Stress responses of wapiti (<i>Cervus elaphus canadensis</i>) to removal of velvet antler. <i>Can. J. Anim. Sci.</i> 82(1):11-17.
	Drew, K.R. (1990) Venison and other deer products. <i>Proceedings, 2nd Int. Deer Biology Conference</i> . Mississippi.
	Haigh, J.C. and Hudson, R.J. (1993) Farming Wapiti and Red Deer. Mosby-Year Book Inc., pp. 150-152.
	Haines, S.R. and Suttie, J.M. (2001) Near-infrared spectroscopy for antler composition analysis. In J.S. Sim, H.H. Sunwoo, R.J. Hudson and B.T. Jeon. 2001. <i>Antler Science and Product Technology</i> . Antler Science and Product Technology Research Centre, Edmonton, Canada (ISBN 1-896110-14-2), pp. 135-150.
	Issacs, C. (1993) Velvet usage. In. <i>A Salute to World Deer Farming</i> . <i>Proceedings of the 1st World Deer Congress</i> , Christchurch, N.Z. New Zealand Deer Farmers Association. Wellington, N.Z., pp. 205-206.
	Li, C. and Suttie, J.M. (2001) Deer Antler Generation: A Process from Permanent to Deciduous. In J.S. Sim, H.H. Sunwoo, R.J. Hudson and B.T. Jeon. (eds) 2001. <i>Antler Science and Product Technology</i> . Antler Science and Product Technology Research Centre, Edmonton, Canada (ISBN 1-896110-14-2), pp. 15-31.
	Mundy, G.R., Gutierrez, G., Gallwitz, W., Feng, J., Chen, D., Garrett, R. and Harris, S. (2001) Antler derived bone growth factors and their potential for use in osteoporosis. In J.S. Sim, H.H. Sunwoo, R.J. Hudson and B.T. Jeon. (eds) 2001. <i>Antler Science and Product Technology</i> . Antler Science and Product Technology Research Centre, Edmonton, Canada (ISBN 1-896110-14-2), pp. 171-187.
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		Roubin, R. And Ghosh, P. (2001) Deer antler cartilage cells express specific growth factors which up-regulate chondrocyte DNA and proteoglycan biosynthesis in vitro. In J.S. Sim, H.H. Sunwoo, R.J. Hudson and B.T. Jeon. (eds) 2001. Antler Science and Product Technology. Antler Science and Product Technology Research Centre, Edmonton, Canada (ISBN 1-896110-14-2), pp. 151-170.
		Schaefer, A.L., Young, B.A. and Turner, B.V. (1982) The effect of cold exposure on blood flow distribution in sheep. J. Thermal Biol. 7:15-21.
		Sunwoo, H.H. and Sim, J.S. (2001) Morphological, chemical and molecular characteristics of active components in velvet antlers for biomedicine and nutraceuticals. In J.S. Sim, H.H. Sunwoo, R.J. Hudson and B.T. Jeon. (eds) 2001. Antler Science and Product Technology. Antler Science and Product Technology Research Centre, Edmonton, Canada (ISBN 1-896110-14-2), pp. 111-134.
		Suttie, J.M.; Fennessy, P.F.; Corson, I.D.; Laas, F.J.; Crosbie, S.F.; Butler, J.H. and Gluckman, P.D. (1989) Pulsatile growth hormone, insulin-like growth factors and antler development in red deer (<i>Cervus alaphus scoticus</i>) stags. J. Endocrin. 121:351-360.
		Suttie, J.M. and Fennessy, P.F. (1990) Antler regeneration studies with antler removal, axial tomography and angiography. In. Horns, Pronghorns and Antlers. Springer-Verlag. N.Y., pp. 313-338.
		Suttie, J.M.; Li, C.; Bubenik, G.A. and Rolf, H.J. (1998) Studies of antler growth: a review of literature. Advances in Deer Biology. Procs. 4 th International Deer Biology Congress, Kaposvar, Tipo Express Ltd. Kaposvar, pp. 375-382.
		Sunwoo, H.H.; Nakano, T.; Hudson, R.J. and Sim, J.S. (1995) Chemical composition of antlers from wapiti (<i>Cervus elaphus</i>). J. Agric. Food Chem. 43:2846-2849.
		Sunwoo, H.H.; Sim, L.Y.M.; Nakano, T.; Hudson, R.J. and Sim, J.S. (1997) Glycosaminoglycans from growing antlers of wapiti (<i>Cervus elaphus</i>) Can. J. Anim. Sci. 77:715-721.
		Turner, T.A.; Fessler, J.F.; Lamp, M.; Pearce, J.A. and Geddes, L.A. (1983) Thermographic evaluation of horses with podotrochlosis. Am. J. Vet. Res. 44: 535-539.
		Wang Shuazhi, W. (1993) The utilization of deer co-products in China. Procs. of the First World Deer Farming Congress, Christchurch, New Zealand, pp. 209-210.
		Zetti-Schaffer, K.F., Ghaffarpour, M., McGovern, T.F. and Engh, C.A. (1993) Scanning electron microscope of bone growth into 40% and 80% porous coated AML prosthesis retrieved at autopsy. 39 th Annual meeting, Orthopedic Research Society 18:471.

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